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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. DKT 00147A  
(BWI-00061)

Group Art Unit: 3745

Examiner: To Be Assigned

Inventor(s): Douglas G. Hunter, et al.

Serial No. 10/021,566

Filed: December 12, 2001

Title: "VARIABLE DISPLACEMENT VANE PUMP  
WITH VARIABLE TARGET REGULATOR"

PRELIMINARY  
AMENDMENT

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## Certificate of Mailing

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Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicant has submitted substitute formal drawings to the U.S. Patent & Trademark Office pursuant to 37 CFR 1.60.

The substitute formal drawings that were submitted were for Figs. 1-10. More specifically, more detail was added to Figs. 1-7 and 10 in order to better illustrate the invention. Copies of the submitted substitute formal drawings are attached so that the Examiner may review them for new matter. It is Applicant's opinion that the submitted

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drawings introduce no new matter and are only being submitted to show the invention more clearly.

Applicant also respectfully submits a substitute specification of the application in accordance with 37 CFR § 1.121(b)(3). Applicant has made some changes to the specification in order to more clearly present the invention described herein. It is Applicant's contention that the changes made in the specification introduce no new matter.

## AMENDMENTS

### In the Drawings

Fig. 1 depicts the same view of the invention as previously disclosed in the original drawing. Some of the original lines from the original Fig. 1 have been made darker to more clearly show the figure.

Fig. 2 depicts the same view of the invention as previously disclosed in the original drawing. The only difference is that some shade lines have been added in to show the drawing more three dimensionally.

Fig. 3 and Fig. 4 also depict the same view of the invention as previously disclosed in the original Fig. 3 and Fig. 4. Some additional vanes are shown in this figure. The additional vanes 14 are not new matter as they are already described in the previous figures. Additionally, more reference numbers have been added in that were already present in the previous figures. An axis and radially extending slots have also been added to this figure, however, they have been previously described in the original specification and in the other drawings. In addition some of the features of this figure that were previously shown as "ghost images" have been drawn as solid lines. Once again this is not new matter, rather the solid lines have been added to better show the invention.

FIG. 5 is the same view as the original Fig. 5. Some shading lines have been added in order to differentiate between the individual parts of the invention. Some directional arrows have also been added to show the direction of flow from the passages 114 and 116. Once again none of this is not new matter and all additions are completely supported in the detailed description section.

Fig. 6 and Fig. 7 depict the same view as their original respective figures. Arrowheads have been added to the opposing ends of the flow lines. Also in Fig. 7, some shading lines at 14 and 54 have been added to differentiate between the individual components of the invention. No new matter has been introduced.

Fig. 10 depicts the same view as shown in the original Fig. 10. Some additional written description has been added to the drawings, however, the written description is fully supported by the detailed description of the specification. No new matter has been introduced.

**In the Specification**

Applicant respectfully submits a substitute specification in accordance with 37 CFR § 1.121(b)(3) which requires the submission of:

- i. An instruction to replace the specification;
- ii. A substitute specification in compliance with § 1.125(b); and
- iii. Another version of the substitute specification, separate from the substitute specification, marked up to show all changes relative to the previous version of the specification. The changes may be shown by brackets (for deleted matter), or underlining (for added matter), or by any equivalent marking system

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Applicant hereby submits the attached substitute specification (labeled without changes) with the intention of replacing the existing specification. A marked up version of the specification is being submitted in order to show all of the changes made relative to the previous version of the specification. The marked up version of the specification shows the changes made to the previous specification using the following system. The text that has black print indicates that the language is the text that is found in both the old version and the new version of the specification. The text that is red in color with a line draw through the text represents text that has been deleted from the older version. The red text that is underlined is the new language that has been added that is not present in the older version. The presence of a redline indicates spaces that have been added to the new version of the specification.

Applicant does not believe that a fee is required for the submission of the substitute specification. However, if Applicant's is incorrect in his belief the Commissioner is hereby authorized to charge the fee due to Deposit Account No. 501612 (Warn, Burgess and Hoffmann, P.C.).

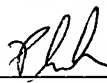
The Examiner is invited to telephone the applicant's undersigned attorney at (248) 364-4300 if any unresolved matters regarding the submission of substitute formal drawings remain.

Respectfully submitted,

P.O. Box 70098  
Rochester Hills, MI 48307  
(248) 364-4300

WARN, BURGESS & HOFFMANN, P.C.  
Attorneys for Applicant(s)

Dated: February 6, 2003

By:   
Philip R. Warn  
Reg. No. 32775

PRW:GLO:acw